SAMSUNG

SAMSUNG ELECTRONICS

DVD VIDEO

DVD PLAYER
DVD-M405

UK

AH68-00723J

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

CAUTION: DVD PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

CAUTIONS

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

CAUTIONS

Protect the unit from damp and excess heat. Disconnect the power cable from the mains electricity supply when the unit malfunctions.
In particular, you should ensure that the motor driven disc drawer is not prevented from moving properly. If the disc loading system is hindered, the loading mechanism may be damaged. Install the DVD player horizontally, away from a source of heat (fireplace) or equipment creating strong magnetic or electric fields.

- Do not place anything heavy on it.
- Do not stack components on it.

CAUTION

The battery used in this product contains the chemicals that are harmful to the environment.

Do not dispose of batteries in the general household waste.

It is recommended that the replacement of the battery should be done by a technician.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

WARNING
To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture.

CAUTION
THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Note:

- This unit can be used only where the power supply is AC 230V, 50Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc.
- This device is protected by U.S. patent numbers 4,631,603, 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision’s copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player’s internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don’t intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

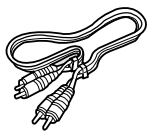
Before You Start

Accessories

Remote Control

Batteries for
Remote Control (AA Size)

User's Manual



Video/Audio Cable

Install Batteries in the Remote

1 Open the battery cover on the back of the remote.

2 Insert two AA batteries. Make sure that the polarities (+ and -) are aligned correctly.

3 Replace the battery cover.

If remote doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

- DVDs/VCDs/CD-Rs recorded in a format different from the global DVD player formats adopted by Samsung, may not be played.
- Some discs recorded under different manufacturing quality, may not be played.

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General Features

Excellent Sound
Dolby Digital, a technology developed by Dolby Laboratories provides crystal clear sound reproduction.

Screen
Video with MPEG-2 compression technology. Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion
An important scene can be viewed in slow motion.

Programmed Play
You can program tracks to play in desired order.

Parental Control
The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions
You can select various languages(Audio/Subtitle) and screen angles while enjoying movies.

Repeat
You can repeat a song or movie simply by pressing the REPEAT button.

NOTE

- If the Disc is recorded with MP3, it will not play back according to its recorded method.
- Only when the Disc is recorded in a Bit Rate over 128kbps, its playback is available.
- Only when the file name extension of the Disc is .mp3, .MP3, its playback is available.
- For the Multi-Session Disc, only when the Disc is continuously recorded, its playback is available, and if it has a Blank Data in a intermediate area, up to continued Session only is played back.
  For Files, which are recorded in a Variable Bit Rate(VBR), e.g. from Low to High Bit Rate(ex: 32~320kbps) in one, a disconnecting phenomenon of sound can happen.

COPY PROTECTION

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD VIDEO	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	
VIDEO-CD (COMPACT disc DIGITAL VIDEO)	Audio + Video	12 Cm	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 Cm	20 min.	
AUDIO-CD (COMPACT disc DIGITAL AUDIO)	Audio	12 Cm	74 min.	• CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	

* DO NOT play CD-ROM, CD-I and DVD-ROM in this player!
(CDGs play audio only, not graphics.)

Disc Markings

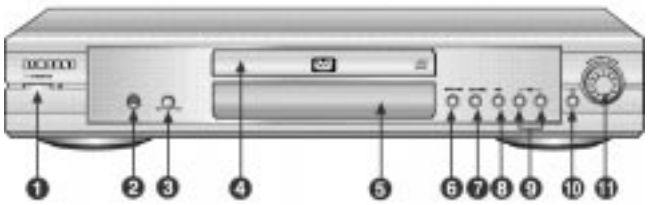
- Play Region Number
- PAL broadcast system in U.K, France, Germany, etc.
- Dolby Digital disc
- Stereo disc
- Digital Audio disc
- DTS disc

Play Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

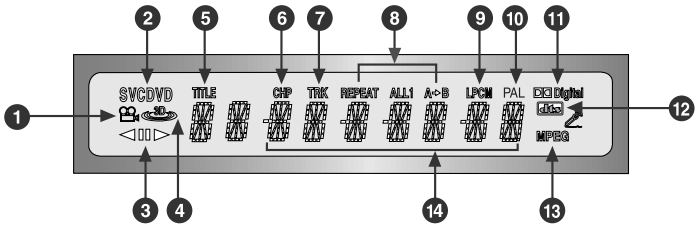
The Region Number for this player is described on the rear panel of the player.

Description-Front Panel



Front Panel Controls

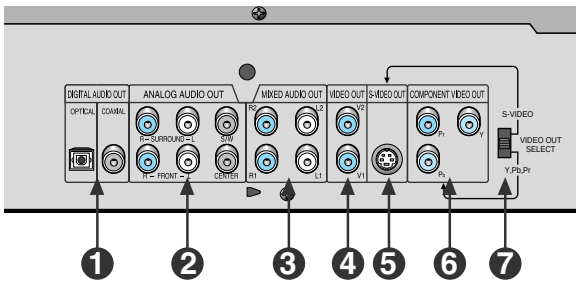
1. **STANDBY / ON**
   - When the unit is first plugged in, the indicator lights. When STANDBY/ON is pressed on again, the light goes out and the player is turned on.
2. **HEADPHONES JACK**
   - You can attach headphones here for private listening.
3. **HEADPHONES VOLUME**
   - Use to adjust headphones volume level.
4. **DISC TRAY**
   - Load the disc here.
5. **DISPLAY**
   - Operation indicators are displayed here.
6. **OPEN/CLOSE**
   - Press to open and close the disc tray.
7. **PLAY/PAUSE**
   - Begin or pause disc play.
8. **STOP**
   - Stops disc play.
9. **SKIP**
   - Use to skip a scene or music.
10. **JOG**
    - Use to access certain Shuttle features with the Shuttle dial : When JOG is pressed, indicator lights up.
11. **SHUTTLE**
    - Use during DVD and CD play to fast forward or reverse. In JOG mode(JOG button pressed), used for frame advance/CD track selection.



Front Panel Display

1. Angle indicator. You can select multiple angles of a scene recorded by different cameras.
2. Disc type indicators
3. Reverse play / Pause / Forward play
4. Lights when 3D surround is turned on.
5. DVD : Title number
6. DVD : Chapter number.
7. Video/Audio CD : Track number
8. Repeat play mode
9. Linear PCM audio output
10. PAL indicator
11. Dolby Digital Disc
12. DTS (Digital Theater System) output
13. MPEG-2 Audio output
14. Displays various messages concerning operations such as PLAY, STOP, LOAD, RANDOM, ...
    no DISC : No disc loaded.
    OPEN : The disc tray is open.
    LOAD : Player is loading disc information.

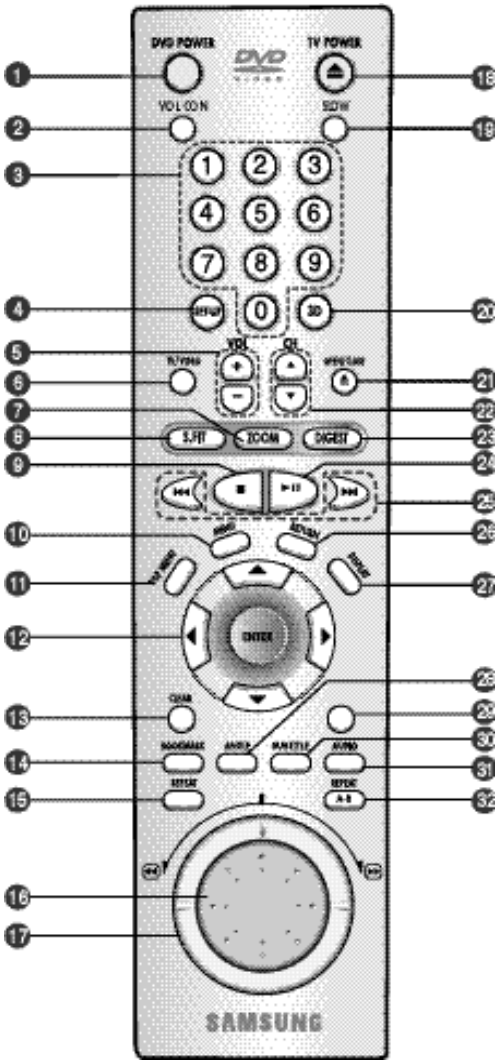
Description-Rear Panel



Rear Panel

1. DIGITAL AUDIO OUT JACKS
   - Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital or DTS decoder.
2. 5.1CH ANALOG AUDIO OUT JACKS
   - Connect to an amplifier with 5.1ch analog input jacks.
3. MIXED AUDIO OUT JACKS
   - Connect to the Audio input jacks of your television, audio/video receiver, or VCR.
4. VIDEO OUT JACKS
   - Use a video cable to connect to the Video input jack on your television.
5. S-VIDEO OUT JACK
   - Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture. The S-Video must be selected in the VIDEO OUT SELECT.
6. COMPONENT VIDEO OUT JACKS
   - Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y video. Along with S-Video, Component Video provides the best picture quality. The Y, Pb, Pr must be selected in the VIDEO OUT SELECT.
7. VIDEO OUT SELECT SWITCH
   - Use the switch to set video out. If Scart jack is selected, S-Video may not work. If S-Video is selected, Scart jack may not work.

Tour of the Remote Control



DVD Function Buttons

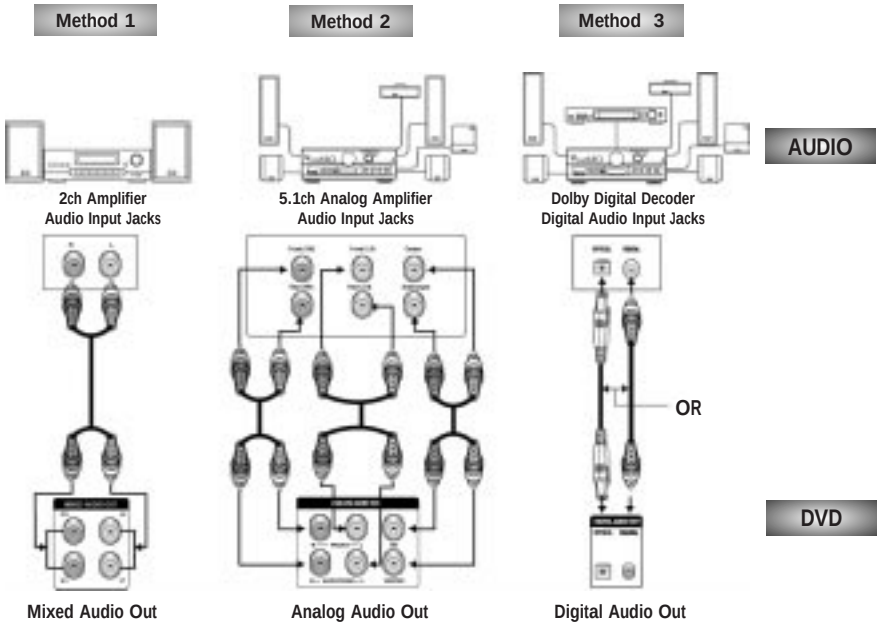
1. **DVD POWER Button**
2. **VOL.CON. Button**
   - To control the master volume of the player.
3. **NUMBER Buttons**
4. **SETUP Button**
   - Brings up the DVD player's Setup menu.
5. **VOLUME Buttons**
6. **TV/VIDEO Button**
7. **ZOOM Button**
8. **S.FIT Button**
9. **STOP Button**
10. **MENU Button**
    - Brings up the Disc menu.
11. **TOP MENU Button**
    - Accesses a music or video display directly.
12. **ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT buttons)**
    - This button functions as a toggle switch.
13. **CLEAR Button**
    - Use to remove menus or status displays from the screen.
14. **BOOKMARK Button**
15. **REPEAT Button**
    - Allows you to repeat play a title, chapter, track, or disc.
16. **JOG DIAL**
    - Operates frame by frame play. In CD mode, performs track search.
17. **SHUTTLE DIAL**
    - Performs fast or slow motion play.
18. **TV POWER Button**
19. **SLOW Button**
20. **3D Button**
21. **OPEN/CLOSE Button**
22. **CHANNEL Buttons**
23. **DIGEST Button**
24. **PLAY/PAUSE Button**
    - Begin/Pause disc play.
25. **SKIP Buttons**
    - Use to skip the title, chapter, or track.
26. **RETURN Button**
    - Returns to a previous menu.
27. **DISPLAY Button**
    - Displays the current disc mode.
28. **ANGLE Button**
    - Use to access various camera angles on a DVD.
29. **MODE Button**
    - Allows you to program a specific order.
30. **SUBTITLE Button**
31. **AUDIO Button**
    - Use this button to access various audio functions on a disc.
32. **A-B REPEAT Button**
    - Use to mark a segment to repeat between A and B.

The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

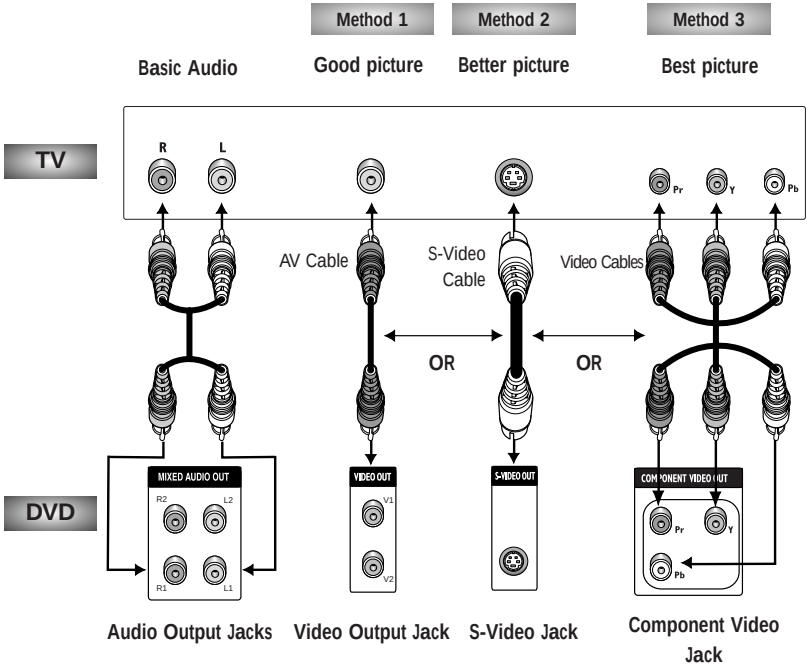
- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the owner's manual of the additional components you are connecting for more information on those particular components.

Connection to an Audio System



Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)



- **Method 1** DVD Player + TV with Video Input Jack
- **Method 2** DVD Player + TV with S-Video Input Jack
  (If S-Video is selected in the VIDEO OUT SELECT.)
- **Method 3** DVD Player + TV with Component Video Jacks
  (If Y, Pb or Pr is selected in the VIDEO OUT SELECT.)

NOTE

- If Y, Pb or Pr is selected, S-Video will not work.
- If S-Video is selected, Y, Pb or Pr will not work.

CONNECTIONS

Before Play

- Turn on your TV and press the TV/VIDEO button to select the video mode.
- Turn on your Audio System and select AUX, CD or DVD.

After plugging in the player, the first time you press the DVD POWER button, this screen comes up :

If you want to select the language, press a NUMBER button. (This screen will only appear the very first time you plug in the player.)

Play

1 Press the OPEN/CLOSE button.

The STANDBY indicator light goes out and the tray opens.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the PLAY/PAUSE button or OPEN/CLOSE button to close the disc tray.

4 Stopping Play

Press the STOP button during play.

5 Removing Disc

Press the OPEN/CLOSE button.

6 Pausing Play

Press the PLAY/PAUSE or STEP button on the remote during play.

- Screen stops, no sound.
- To resume again, press PLAY/PAUSE button once again.

7 Step Motion Play. (Except CD)

Press the STEP button on the remote during play.

- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE to resume normal play. (You can only perform step motion play in the forward direction.)

8 Slow Motion Play. (Except CD)

Press the FWD SEARCH button on the remote during PAUSE or STEP mode.

- By pressing the FWD SEARCH button, you can select slow motion play for 1/8, 1/4 or 1/2 of normal speed.
- No sound is heard during slow mode.
- Press PLAY/PAUSE to resume normal play.
- Reverse slow motion play is not possible on this unit.

RESUME function

When you stop disc play, the player remembers where you stopped, so when you press PLAY again, it will pick up where you left off (unless the disc is removed, the STOP button is pressed twice or the player is unplugged.).

NOTE

- If the player is left for 5 minutes in pause mode, it will stop.
- If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated, and the TV screen will fade in and out repeatedly. Press the PLAY button to resume normal play.
- This ⊘ icon indicates an invalid button press.

Using the Search & Skip Functions

During play, you can search quickly through a chapter or track or use the skip function to jump to the next selection.

Searching through a Chapter or Track

1 During play, press the FWD or REV SEARCH button on the remote.

- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/16X/32X/128X normal speed, in order) on the DVD.
- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/normal speed in order) on VCD and CD.
- To return to normal speed play, press the PLAY/ PAUSE button.

Skipping Tracks

2 During play, press the NEXT SKIP or BACK SKIP button.

- When playing a DVD, if you press the NEXT SKIP button, it moves to next chapter. If you press the BACK SKIP button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in MENU OFF mode, a VCD 1.1 or a CD, if you press the NEXT SKIP button, it moves to next track. If you press the BACK SKIP button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the NEXT SKIP button, it moves forward 5 minutes. If you press the BACK SKIP button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the NEXT SKIP button, it moves to the next MENU or the next Track View display.

  If you press the BACK SKIP button, it moves to the previous MENU or the previous Track View display. (See page 23.)

NOTE

- When in search mode (2X/4X/8X/16X/32X/128X) on a DVD or high-speed play(4X/8X) on a VCD or (2X/4X/8X) on a CD.
- Depending on the disc, audio may not be heard when a disc is in 2X play mode.

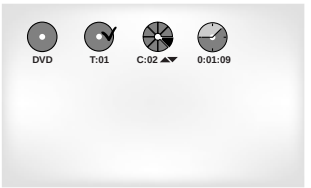
Using the Display Function

When Playing a DVD

1 During play, press the DISPLAY button on the remote.

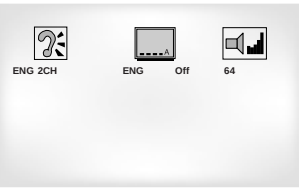
- Current title, chapter number and elapsed time will be displayed.
- Use the LEFT/RIGHT buttons to select a title or a chapter number.

  Use the UP/DOWN buttons or Number buttons to enter a different title or chapter number, then press the ENTER button.
- To enter the time from which you want to start, use the LEFT/RIGHT buttons to select, then use the Number buttons to enter the time. Then press the ENTER button.



2 Press the DISPLAY button on the remote twice.

- Current audio, subtitle and volume control will appear.
- To make the screen disappear, press the DISPLAY button again.



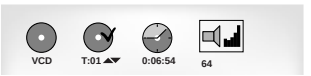
When Playing a CD/VCD

1 During play, press the DISPLAY button on the remote.

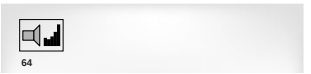
- Current track number, elapsed time and volume control will be displayed.
- Use the LEFT/RIGHT buttons to select a track. Use the UP/DOWN buttons or Number buttons to enter a different track number, then press the ENTER button.
- To enter the time from which you want to start, use the LEFT/RIGHT buttons to select, then use the Number buttons to enter the time. Press the ENTER button.

- To make the screen disappear, press the DISPLAY button again.

VCD (Menu off)



VCD (Menu on)



CD

NOTE

What is a Chapter?
Each Title on a DVD is usually divided into chapters (similar to tracks on an audio CD).

What is a Title?
A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.

Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD

1 Press the REPEAT button on the remote. Repeat screen appears.

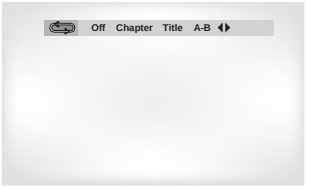
2 Select Chapter, Title or A-B using the LEFT/RIGHT buttons.

- A-B Repeat
- Press the REPEAT button. Select A-B on screen with the LEFT/RIGHT buttons or press the A-B button on the remote.
- Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
- Press ENTER at the point where you want the repeat play to stop (B).

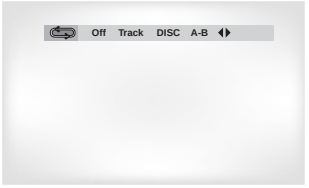
3 Press ENTER.

4 To return to normal play, press REPEAT again, then press the LEFT/RIGHT buttons to select Off and press ENTER.

DVD



VCD/CD



NOTE

- DVD repeats play by chapter or title, CD and VCD repeat play by disc or track.
- Depending on the disc, the Repeat function may not work.
- If the title or track is completed before marking the end (B), the end of title or track becomes B automatically.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.

Program Play & Random Play

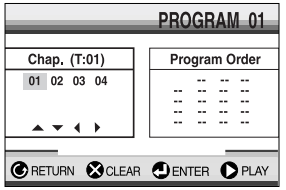
Program Play (DVD/VCD/CD)

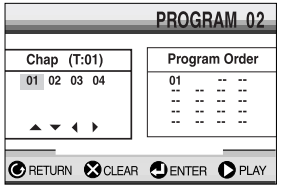
1 Press the MODE button.

2 Use the LEFT/RIGHT buttons to select PROGRAM. Press the ENTER button.

3 Use the LEFT/RIGHT buttons to select the first chapter (or track) to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.

4 Press the PLAY/PAUSE button. The disc will be played in programmed order.





Random Play (DVD/VCD/CD)

1 Press the MODE button.

2 Use the LEFT/RIGHT buttons to select RANDOM. Press the ENTER button.

The disc will be played in random order.

NOTE

- Depending on the disc, the Program and Random Play function may not work.
- When in VCD 2.0 mode (MENU ON mode), these functions do not work.
- To resume normal play, press the CLEAR button.

S.FIT Play

Screen Fit Play

1 Press Screen FIT button on remote control.

- Allows you to eliminate the black bars in the top and bottom of the screen when a movie is playing in the Widescreen format(16:9).
- Screen Fit will not work when the Zoom mode is active. (you can not remove the black bars on the screen) However, Zoom mode will work when Screen Fit is active.

NOTE

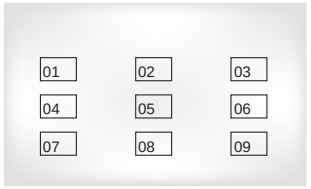
- Various aspect ratios are available only in multiple screen format discs.
- This function does not work when a DVD has been recorded with a multi-camera angle format.
- On some DVDs, the black bars cannot be eliminated due to their aspect ratio.

Digest Play

Digest Play

1 During play, Press the DIGEST button.

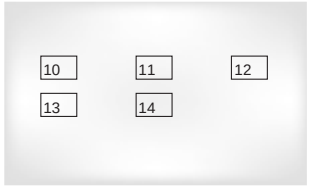
- You'll see the 9 individual windows representing each of the chapters on the TV screen.
- When each window is displayed, the first 3 seconds of the chapter will be played.



skip button

2 Press UP/DOWN/LEFT/RIGHT buttons to select the window you'd like to see, and press the ENTER button.

- Up to 9 windows(chapters) can be displayed on the screen at a time. Press the 'Skip' button for the next 9 chapters if the movie has more than 9.



NOTE

- You can play the DVD player starting with the desired chapter after directly moving to the scene you want.
- 'DIGEST' may not operate depending on the disc in use.

Slow Repeat play

This feature allows you slowly repeat scenes containing sports, dancing, musical instruments being played etc. so you can study them more closely.

When playing a DVD

1. Press the PLAY/PAUSE button.
2. Press the F/SEARCH button to choose the play speed between 1/8X, 1/4X, and 1/2X of normal.
3. Press the REPEAT (A-B) button to select the point where the function starts. (A)
4. Press the REPEAT (A-B) button to select the point where the function ends. (B)

NOTE

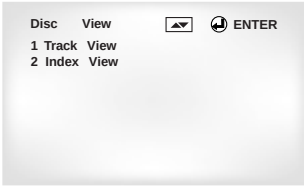
- The disc will play only from A to B repeatedly at the speed you chose.
- To terminate the function, press the 'CLEAR' button or the 'REPEAT (A-B)' button again.

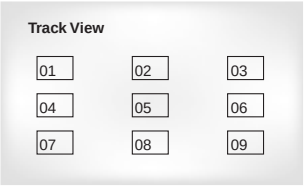
Using the Disc View Function

Track View (VCD)

Displays the beginning view of each track and the track number.

1. During play, press the TOP MENU button.
2. Press the UP/DOWN buttons to select TRACK VIEW. Press the ENTER button.
3. Select the desired view by pressing the UP/DOWN or LEFT/RIGHT buttons.
4. Press the ENTER button.



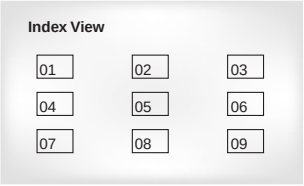


example

Index View (VCD)

Displays the equally divided 9 views of the current playing track.

1. During play, press the TOP MENU button.
2. Press UP/DOWN buttons to select INDEX VIEW. Press the ENTER button.
3. Select the desired view by pressing UP/DOWN or LEFT/RIGHT buttons.
4. Press the ENTER button.



example

NOTE

- In stop mode on VCD, press the TOP MENU button and the TRACK VIEW will be displayed.
- When pressing the TOP MENU button with a DVD; the disc's TITLE MENU function comes up. A disc must have at least two titles for the TITLE MENU function to work.
- When pressing the TOP MENU button with a CD; the unit enters the INTRO mode. INTRO lets you listen to the beginning of each track for about 10 seconds.

Selecting the Audio Language

You can select a desired language quickly and easily with the AUDIO button.

Using the AUDIO button

1 Press the AUDIO button.

2 Use the UP/DOWN buttons to select the desired language on a DVD.
- The audio languages are represented by abbreviations.

3 Use the UP/DOWN buttons to select Stereo, Right or Left. (On VCD/CD)

DVD

VCD

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- **How to have the same audio language come up whenever you play a DVD;**
  Refer to "Setting Up the Language Features" on page 31.

Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button

1 Press the SUBTITLE button.

2 Use the UP/DOWN buttons to select the desired subtitle language.

3 Use the LEFT/RIGHT buttons to determine whether or not the subtitle will be displayed.
- Initially, the subtitling will not appear on screen.
- The subtitle languages are represented by abbreviations.

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- **How to have the same subtitle language come up whenever you play a DVD;**
  Refer to "Setting Up the Language Features" on page 31.

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the ANGLE button

Press the ANGLE button to see if an ANGLE ( ) mark is present at the upper right hand corner of the screen.

1. When an ANGLE mark is shown, press the ANGLE button, then an ANGLE select icon will appear at the upper left hand corner of the screen.
2. Use the UP/DOWN buttons to select the desired screen angle.
3. To turn off the display, press the ANGLE button again.

example

Master Volume Control Function

1. Press the VOL.CON. button. Use the UP/DOWN buttons to select a suitable volume.

- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system.
- Volume control is only operative when using the Analog Audio outputs.
- There are up to 64 levels. Lowering each level reduces the audio level by 0.5dB.

example

NOTE

- The Master Volume must be reset for each disc you play. Once a disc is done playing, the Master Volume returns to the default position (64).

Using the Bookmark Function

The Bookmark function lets you select parts of a DVD or VCD (MENU OFF mode) so that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)

1. During play, press the BOOKMARK button on the remote. The Bookmark icons will be displayed.
2. Use the LEFT/RIGHT buttons to move to the desired bookmark icon.
3. When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
4. Press the BOOKMARK button to turn off the display.

Recalling a Marked Scene

1. During play, press the BOOKMARK button on the remote.
2. Use the LEFT/RIGHT buttons to select a marked scene.
3. Press the PLAY/PAUSE button to skip to the marked scene.

Clearing a Bookmark

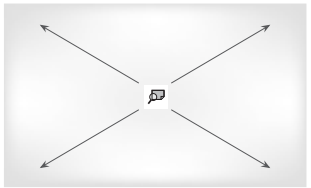
1. During play, press the BOOKMARK button on the remote.
2. Use the LEFT/RIGHT buttons to select the bookmark number you want to delete.
3. Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off display.

NOTE

- Up to three scenes may be marked at a time.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

Using the Zoom & 3D Sound Functions

Using the Zoom Function (DVD/VCD)



1 During play or pause mode, press the ZOOM button on the remote. A square will be displayed on screen.

2 Use the UP/DOWN or LEFT/RIGHT button to select the part of the screen you want to zoom in on.

3 Press the ENTER button.

- During DVD play, press ENTER to zoom in 2X/4X/2X/Normal in order.
- During VCD play, press ENTER to zoom in 2X/normal in order.

Using the 3D Sound Function

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect. This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.
(Discs which are recorded with LPCM or DTS will not work. When the DIGITAL OUTPUT is set to BIT STREAM in the SETUP MENU, the 3D Sound function will not work.)

1 During play, press the 3D SOUND button. The 3D SOUND mark will be displayed on screen. (Be sure the DIGITAL OUTPUT is set to PCM.)

2 Press the UP/DOWN buttons to turn the 3D Sound feature on or off.

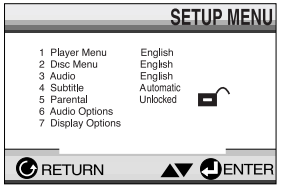
NOTE

- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the Zoom and 3D Sound function may not work.

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1 With the unit in Stop mode, press the SETUP button on the remote.



❶ **Player Menu :** Setup of the Display Language
Use the Player preference menu to select the language for the player's on-screen displays.

❷ **Disc Menu :** Setup of the Menu Language
Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.

❸ **Audio :** Setup of the Audio Language
Use the Audio preference menu to select the soundtrack language.

❹ **Subtitle :** Setup of the Subtitle Language
Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in.

❺ **Parental :** Setup of the Parental Level
Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.

❻ **Audio Options :** Setup of the Audio Options
❼ **Display Options :** Setup of the Display Options
Use to select which type of screen you want to watch and several display options.

2 Use the UP/DOWN buttons on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the setup screen disappear after setting up, press the SETUP button again.

NOTE

Depending on the disc, some Setup Menu selections may not work.

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Player Menu Language

1 With the unit in Stop mode, press the SETUP button.

2 Use the UP/DOWN buttons to select the PLAYER MENU.

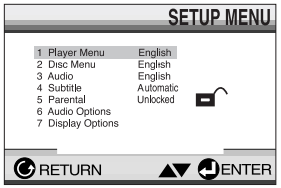
3 Press the ENTER button.

4 Use the UP/DOWN buttons to select 'English'.

5 Press the ENTER button.

- English is selected and the screen returns to SETUP MENU.
- To make the SETUP MENU disappear, press the RETURN button.

e.g Setting up in English.



Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1 With the unit in Stop mode, press the SETUP button.

2 Use the UP/DOWN buttons to select DISC MENU.

3 Press the ENTER button.

4 Use the UP/DOWN buttons to select 'English'.

- Select "Others" if the language you want is not listed.

5 Press the ENTER button.

- English is selected and the screen returns to SETUP MENU.

e.g Setting up in English.

Using the Audio Language

1 With the unit in Stop mode, press the SETUP button.

2 Press the UP/DOWN buttons to move to AUDIO.

3 Press the ENTER button.

4 Press the UP/DOWN buttons to select 'English' .

- Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- Select "Others" if the language you want is not listed.

5 Press the ENTER button.

- English is selected and the screen returns to SETUP MENU.

Using the Subtitle Language

1 With the unit in Stop mode, press the SETUP button.

2 Use the UP/DOWN buttons to select SUBTITLE.

3 Press the ENTER button.

4 Use the UP/DOWN buttons to select 'English'.

- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.
- Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

5 Press the ENTER button.

- English is selected and the screen returns to SETUP MENU.

NOTE

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the SETUP MENU disappear or return to menu screen during set up;** Press RETURN button.

Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1 With the unit in Stop mode, press SETUP button. The Setup Menu screen appears.

2 Use UP/DOWN to select Parental. Press ENTER. The Parental Control screen appears.

3 Use LEFT/RIGHT to select Yes if you want to use a password. Press ENTER. The Enter Password screen appears.

4 Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The Parental Control screen appears.

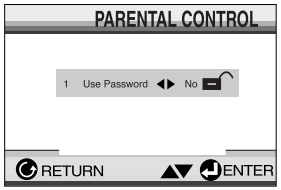
5 **About the Rating Level** ;

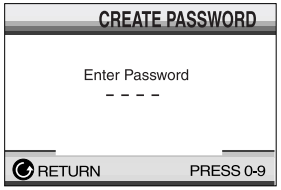
The Rating Level will work only when Use Password is set to Yes. To unlock the player, use LEFT/RIGHT to select No. Use UP/DOWN to select Rating level. Press ENTER.

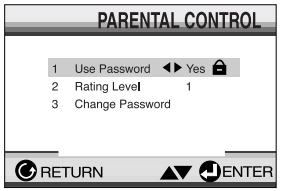
- Use UP/DOWN to select the level(e.g. Level 6) and press ENTER. Discs that contain Level 7 will now not play.
- To cancel the rating level, use LEFT/RIGHT to select No in Use Password.

6 **About the Change Password** ;

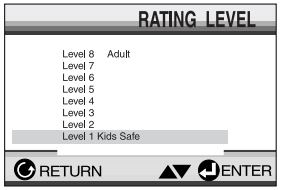
- Use UP/DOWN to select Change Password. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.







e.g Setting up in LEVEL6.



NOTE

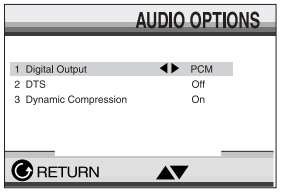
- **How to make the SETUP MENU disappear or return to menu screen during set up;** Press RETURN button.
- If you have forgotten your password, see Forget Password in the Troubleshooting Guide.

Setting Up the Audio Options

1 With the unit in Stop mode, press the SETUP button.

2 Use the UP/DOWN buttons to select AUDIO OPTIONS. Then press the ENTER button.

3 Use the UP/DOWN buttons to select the desired item. Then press the LEFT/RIGHT buttons.



❶ Dolby Digital Out

1. PCM :
Converts to PCM(2CH) audio.
Select PCM when using the Analog Audio Outputs.

2. Bitstream :
Converts to Dolby Digital Bitstream (5.1CH).
Select Bitstream when using the Digital Audio Output.

NOTE : Be sure to select the correct Digital Output or no audio will be heard.

❷ MPEG-2 Digital Out

1. PCM :
Converts to PCM(2CH) audio.
Select PCM when using the Analog Audio Outputs.

2. Bitstream :
Converts to MPEG-2 Digital Bitstream (5.1CH or 7.1CH).
Select Bitstream when using the Digital Audio Output.

❸ DTS

1. On : Outputs DTS Bitstream via digital output only.
Select DTS when connecting to a DTS Decoder.

2. Off : Doesn't output digital signal.

❹ Dynamic Compression

1. On : To select dynamic compression.

2. Off : To select the standard range.

❺ 2X Scan Audio

1. On : Turns 2X audio on.

2. Off : Turns 2X audio off.

Though 2X Scan Audio is ON in the SETUP MENU, no sound will be heard on discs which are recorded with LPCM, DTS or MPEG-2 Audio.

❻ Speaker

NOTE

- **How to make the SETUP MENU disappear or return to menu screen during set up;** Press RETURN button.
- Certain audio features of this product manufactured under a license from Deeper Products, Inc. Spatializer® and circle-in-square device are trademarks owned by Deeper Products, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories Inc. All rights reserved.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

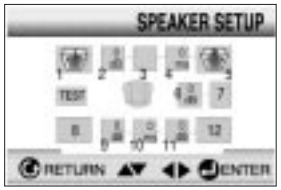
Surround Sound Speaker Setup

1 Press the SETUP button in play or stop mode.

2 Press the UP/DOWN buttons to select AUDIO OPTIONS. Then press the ENTER button.

3 Use the UP/DOWN buttons to select SPEAKER SETUP. Then press the ENTER button.

4 Use the UP/DOWN or LEFT/RIGHT buttons to select the desired item. Then press the ENTER button.



1. Speaker Mode(Front L)
2. Channel Balance(Center)OdB
3. Speaker Mode(Center)
4. Delay Time(Center)Oms
5. Speaker Mode(Front R)
6. Channel Balance(Subwoofer)OdB
7. Speaker Mode(Subwoofer)
8. Speaker Mode(Surround L)
9. Channel Balance(Surround L)OdB
10. Delay Time(Surround L/R)Oms
11. Channel Balance(Surround R)OdB
12. Speaker Mode(Surround R)

Setting up SPEAKER MODE

- If you have connected the system to a speaker with low frequencies of 100Hz or below, select 'Found (Large illustration)'.
- If you have connected the system to a speaker without low frequencies of 100Hz or below, select 'Found(Small illustration)'. If you don't connect a subwoofer, always select 'Found(Large illustration)' for the Front Speakers(L/R).
- When you don't have a particular speaker connected, select 'Not found (No illustration visible)'.

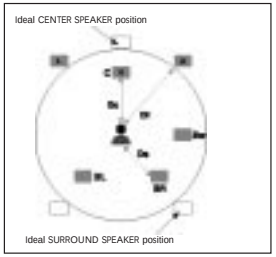
Setting up DELAY TIME

- When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Surround Speaker to customize the sound to the acoustic of your room.
- Setting CENTER SPEAKER
  If the distance of Dc is equal to or longer than the distance of Df in the left figure, set the mode as Oms. Otherwise, change the setting according to the table below.
  (A) = Df - Dc

Distance of (A)(in)	Setting(ms)
1.64	1.3
3.28	2.6
4.92	3.9
6.56	5.3

- Setting SURROUND SPEAKERS
  If the distance of Df is equal to the distance of Ds in the above, set the mode as Oms. Otherwise, change the setting according to the table on the right.
  (B) = Df - Ds

Distance of (B)(in)	Setting(ms)
6.56	5.3
13.12	10.6
19.68	15.9



Setting up TEST

The test output signals come clockwise starting from the Front Speaker(L). Adjust Channel Balance to match to the volume of test signals memorized in the system.

FRONT(L) → CENTER → FRONT(R) → SUBWOOFER
SURROUND(R) → SURROUND(L)

NOTE

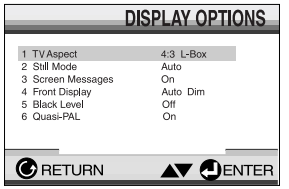
- **How to make the SETUP MENU disappear or return to menu screen during set up.** Press RETURN button.
- The subwoofer test output signal is lower than the other speakers.
- The MPEG Multichannel logo is a trademark registered by PHILIPS Corporation.

Setting Up the Display Options

1 With the unit in Stop mode, press the SETUP button.

2 Use the UP/DOWN buttons to select DISPLAY OPTIONS. Then press the ENTER button.

3 Use the UP/DOWN buttons to select the desired item. Then press the LEFT/RIGHT buttons.



❶ **TV Aspect**
Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).
1. 4:3 Letter Box :
Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
2. 4:3 Pan-Scan :
Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
3. 16:9 Wide :
You can view the full 16:9 picture on your widescreen TV.

❷ **Still Mode**
These options will help prevent picture shake in still mode and display small text clearer.
1. Field : Select this feature when the screen shakes in the Auto mode.
2. Frame : Select this feature when you want to see small letters more clearly in the Auto mode.
3. Auto : When selecting Auto, Field/Frame mode will be automatically converted.

❸ **Screen Messages**
Use to turn on-screen messages On or Off.

❹ **Front Display**
Adjust the brightness of the unit's front panel display.
1. Bright : Makes the Front Panel Display bright.
2. Dim : Makes the Front Panel Display dim.
3. Auto Dim : Makes the Front Panel Display dim automatically when playing a DVD.

❺ **Black Level**
Adjusts the brightness of the screen.(On/Off)

❻ **Quasi-PAL**
Depending on a disc, you can play a NTSC DVD disc by Quasi-PAL mode.

NOTE

- **How to make the SETUP MENU disappear or return to menu screen during set up;** Press RETURN button.

Controlling a TV with the Remote

The remote can also be set up to control most TVs. To program the remote, use the code that corresponds to your brand.

TV Codes	
CODE	BRAND
01	SAMSUNG_1
02	SHARP_1
03	SONY
04	MAGNAVOX
05	SANYO_1
06	LG_2
07	RCA
08	LG_1
09	TOSHIBA
10	HITACHI
11	JVC
12	PANASONIC_1
13	MITSUBISHI_2
14	SAMSUNG_2
15	SAMSUNG_3
16	SHARP_1
17	ZENITH
18	LG_3
19	DAEWOO_8
20	SANYO_2
21	EMERSON
22	SHARP_3
23	SAMSUNG_4
24	PANASONIC_2
25	NOBLEX
26	TELEFUNKEN
27	NEWSAN
28	LOEWE
29	RCA2

1 Turn on the TV

2 Point the DVD's remote at the TV.

3 While holding the TV POWER button down, enter the code for your brand.

e.g For Samsung D TVs

While holding down the TV button, enter 0.

4 If the TV turns off, setup is complete.

Enter other codes of the same brand if the first code does not work.

5 To operate the TV, use the "TV Function Buttons" described on page 11.

NOTE

The remote may not be able to control every model TV of the brands listed.

Troubleshooting

Before requesting service (troubleshooting), please check the following.

Problem	Action	Page
No operations can be performed with remote.	• Check the batteries in the remote. May need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P4
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P 7
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. • In a SETUP Menu, is the Audio Output set to Bitstream?	P 12
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P 15
Disc Menu doesn't appear.	• Check if the disc has a Menu.	P 29~30
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P 29~35
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P 35
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P 33
Forgot password	• Press power on from a cold start with no disc in the unit. Press the STOP and PLAY buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the SETUP button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.	P 32
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	

Specifications

General	Power Requirements	AC 230 V, 50 Hz
	Power Consumption	15 W
	Weight	2.8 Kg
	Dimensions	430mm X 240mm X 79mm
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 11.45 ft/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 74 min.
	CD : 8Cm (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	2 channel : 1.0 Vp-p (75 Ω load)
	SCART Jack	R(Red) : 0.714 Vp-p (75 Ω load) G(Green) : 0.714 Vp-p (75 Ω load) B(Blue) : 0.714 Vp-p (75 Ω load) Composite Video : 1.0 Vp-p (75 Ω load) Luminance Signal : 1.0 Vp-p (75 Ω load) Color Signal : 0.286 Vp-p (75 Ω load)
	S-VIDEO	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
Audio Output	SCART Jack	2 Channel : L(1/L), R(2/R)
	2 channel	L(1/L), R(2/R)
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

UNITED KINGDOM

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.
However, Samsung Authorized Dealers and Authorized Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorized Service Centres are available from:

Samsung Electronics (U.K.) Ltd.,
Euro Service Centre, Stafford Park 12,
TELFORD, Shropshire TF3 3BJ,
Tel: 01952) 292262, Fax: 01952) 292033

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorized Samsung Dealers or Authorized Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.

REPUBLIC OF IRELAND

4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
   a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
   b) Cost relating to transport, removal or installation of the product.
   c) Misuse, including the faiure to use this product for its normal purposes or incorrect installation.
   d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.